

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of claims:**

1           **Claim 1 (currently amended):** A storage-based digital  
2   broadcast system ~~wherein~~ for transmitting contents of a  
3   content provider ~~transmitted from a sending side are stored~~  
4   ~~on a receiving side then reproduced, characterized in that~~  
5   comprising:  
6           service structure information;  
7           a sending side for transmitting said service structure  
8   information;  
9           a receiving side, separated from said sending side,  
10   for receiving, storing, and managing said service structure  
11   information;  
12           ~~the sending side transmits~~ wherein said service  
13   structure information ~~describing~~ describes the relational  
14   structure between services provided by said ~~contents~~  
15   ~~providers~~ content provider and reference information  
16   associating the contents with the services described in  
17   said service structure information, ~~and that~~  
18           ~~the receiving side uses said received service~~  
19   ~~structure information and reference information to manage~~  
20   ~~the storage of said contents.~~

1           **Claim 2 (original):** A storage-based broadcast system  
2     according to claim 1, characterized in that the sending  
3     side transmits said service structure information and  
4     reference information before transmission of said contents  
5     and that the receiving side receives and stores said  
6     service structure information and reference information and  
7     uses the information for management of the storage of  
8     contents to be received later.

1           **Claim 3 (original):** A storage-based broadcast system  
2     according to claim 1, characterized in that the sending  
3     side transmits said reference information before  
4     transmission of said contents and transmits said service  
5     structure information after transmission of said contents  
6     and that the receiving side combines said reference  
7     information that has been stored and said service structure  
8     information that has been received later and uses the  
9     information for management of the storage of said contents.

1           **Claim 4 (original):** A storage-based broadcast system  
2     according to claim 1, characterized in that said contents  
3     contains non-stream format data contents.

1           **Claim 5 (previously presented):** A storage-based  
2     broadcast system according to claim 1 or 4, characterized

3     in that said contents contains a stream format AV data and  
4     that said AV data is converted to file format on the  
5     receiving side and stored as AV contents.

1           **Claim 6 (original):** A storage-based broadcast system  
2     according to claim 1, characterized in that said service  
3     structure information is transmitted via SI (Service  
4     Information).

1           **Claim 7 (previously presented):** A storage-based  
2     broadcast system according to claim 4, characterized in  
3     that said service structure information is transmitted as  
4     said SI by using the ERT (Event Relation Table).

1           **Claim 8 (original):** A storage-based broadcast system  
2     according to claim 1, characterized in that the type  
3     information for representing the meaning of the service  
4     structure information and for selecting the operation on  
5     the receiving side is appended to said service structure  
6     information.

1           **Claim 9 (original):** A storage-based broadcast system  
2     according to claim 1, characterized in that said reference  
3     information is transmitted via SI.

1           **Claim 10 (original):** A storage-based broadcast system  
2     according to claim 9, characterized in that said reference  
3     information is transmitted as said SI by using a reference  
4     descriptor.

1           **Claim 11 (original):** A storage-based broadcast system  
2     according to claim 1, characterized in that said receiving  
3     side exclusively manages the storage areas of said contents  
4     per service.

1           **Claim 12 (original):** A storage-based broadcast system  
2     according to claim 1, characterized in that said receiving  
3     side manages the validity term of stored contents per  
4     service.

1           **Claim 13 (original):** A storage-based broadcast system  
2     according to claim 1, characterized in that said receiving  
3     side manages the value of stored contents per service.

1           **Claim 14 (original):** A storage-based broadcast system  
2     according to claim 1, characterized in that said sending  
3     side specifies a particular service in said service  
4     structure information and that the receiving side performs  
5     processing tailored to the contents related to the  
6     specified service.

1           **Claim 15 (original):** A storage-based broadcast system  
2     according to claim 1, characterized in that said receiving  
3     side specifies a service in said service structure  
4     information and stores only the contents related to the  
5     specified service.

1           **Claim 16 (original):** A storage-based broadcast system  
2     according to claim 1, characterized in that said sending  
3     side appends an automatic storage flag to contents in said  
4     reference information and that the receiving side stores or  
5     updates the contents with said automatic storage flag  
6     appended.

1           **Claim 17 (original):** A storage-based broadcast system  
2     according to claim 1, characterized in that said sending  
3     side appends an automatic storage flag to contents in said  
4     reference information and specifies a particular service in  
5     said service structure information and that the receiving  
6     side automatically stores or updates the contents with said  
7     automatic storage flag appended among the contents related  
8     to the specified service.

1           **Claim 18 (original):** A storage-based broadcast system  
2     according to claim 1, characterized in that said sending

3 side appends an automatic storage flag to contents in said  
4 reference information and that said receiving side  
5 specifies a service in said service structure information  
6 and automatically stores or updates the contents with said  
7 automatic storage flag appended among the contents related  
8 to the specified service.

1 **Claim 19 (original):** A storage-based broadcast system  
2 according to claim 16, 17 or 18, characterized in that said  
3 automatic storage flag is transmitted via SI.

1 **Claim 20 (original):** A storage-based broadcast system  
2 according to claim 19, characterized in that an EIT (Event  
3 Information Table) is used to transmit said automatic  
4 storage flag as said SI.

1 **Claim 21 (original):** A storage-based broadcast system  
2 according to claim 1, characterized in that said sending  
3 side specifies the relationship between the same contents  
4 in said service structure information and that said  
5 receiving side avoids duplicated storage of the same  
6 contents based on said service structure information.

1 **Claim 22 (currently amended):** A transmitter of a  
2 storage-based digital broadcast system wherein contents

3 transmitted from a sending side are stored on a receiving  
4 side, separated from said sending side, then reproduced,  
5 characterized in that said transmitter comprises

6 service structure information generating means for  
7 generating service structure information representing a  
8 relational structure between services provided by contents  
9 providers,

10 reference information generating means for generating  
11 reference information for associating the contents with the  
12 service described in said service structure information,

13 service information adding means for adding said  
14 reference information to service information, and

15 multiplexing/transmission means for multiplexing  
16 service information containing said reference information  
17 and said service structure information into contents and  
18 transmitting the resulting data.

1 **Claim 23 (currently amended):** A receiver of a  
2 storage-based digital broadcast system wherein contents  
3 transmitted from a sending side are stored on a receiving  
4 side, separated from said sending side, then reproduced,  
5 characterized in that said receiver comprises

6 receiving/demultiplexing means for demultiplexing  
7 contents, service structure information describing the  
8 relational structure between services provided by contents  
9 providers and service information containing reference

10 information associating contents with the service described  
11 in said service structure information from received  
12 signals,  
13 contents storage means for storing demultiplexed  
14 contents,  
15 service structure storage means for storing  
16 demultiplexed service structure information,  
17 service information storage means for storing said  
18 demultiplexed service information, and  
19 service management means for managing storage of said  
20 contents by using service structure information and  
21 reference information.

1 **Claim 24 (original):** A receiver according to claim  
2 23, characterized in that said receiver comprises automatic  
3 storage management means for managing automatic storage of  
4 contents in said contents storage means based on the  
5 automatic storage flag appended to said service  
6 information.

1 **Claim 25 (new):** A storage-based digital broadcast  
2 system for transmitting a plurality of contents comprising:  
3 service structure information;  
4 a sending side for transmitting said service structure  
5 information;



6           a receiving side for receiving, storing, and managing  
7   said service structure information;  
8           wherein said service structure information is  
9   organized in a hierarchal manner and associates with one or  
10 more services provided by a content provider, and also  
11 associates each one of said services with one or more of  
12 said plurality of said contents.